

## **CLAIMS**

1. (currently amended) A system for drafting a patent application and assessing technological information on at least one computer, the system comprising:
- a. at least one input device connected to the at least one computer for receiving information inputs from at least one user, wherein the inputs include a text-based description of an invention;
  - b. at least one processing means for automatically generating a diagrammatic representation of the invention by automatically transforming the information inputs including the text-based description, wherein the diagrammatic representation includes a hierarchical component categorization of the technical components, including at least one key component and at least one subcomponent associated with the key component of the invention based upon the information inputted by the at least one user, wherein the diagrammatic representation comprises graphical component structure and textual component content associated with each component such that for each component, the graphical component structure includes the textual component content, and wherein the graphical claim structure comprises multiple geometric outlines, each outline operable to fully display the textual claim content of at least part of one claim, and at least one line directly connecting the outlines to each other according the hierarchy of the at least part of a patent claims series; and for automatically generating a document for filing as a patent application, including specification and claims, based upon the information inputted by the at least one user and additional text-based detailed information that is organized consistent with the

- diagram; wherein the hierarchical component categorization includes at least one key component and at least one subcomponent related thereto, wherein the hierarchical component categorization contains the full text of the textual component content; wherein the diagrammatic representation of the components and subcomponents together provides an indication of what may be claimed in a patent application, and wherein the text-based information and the diagram components are automatically directly linked by being visually integrated with one another within the graphical component structure;
- c. at least one output device connected to the at least one computer for outputting the automatically generated diagrammatic representation of an invention wherein the graphical component structure and textual component content being integrally visually generated and linked in a single, interactive diagram in a single user interface pane.
2. (original) The system according to claim 1, wherein the diagram is modifiable by the at least one user and the diagram hierarchical component categorization and related text-based detailed information is automatically updated based upon the user modifications.
3. (original) The system according to claim 1, wherein the at least one key component includes a multiplicity of components.
4. (original) The system according to claim 1, wherein the at least one subcomponent further includes at least one sub-subcomponent.
5. (original) The system according to claim 1, wherein the relational connection between components establishes the claims structure of the patent application.

6. (previously cancelled)

7. (currently amended) The system according to claim [[ 6- 5 ]], wherein the link(s) are hyperlinks.

8. (original) The system according to claim 1, wherein the document and diagram are capable of being output into another software program.

9. (original) The system according to claim 1, wherein the document and diagram are exportable in HTML format.

10. (original) The system according to claim 1, wherein the document and diagram are exportable in XML format.

11. (previously amended) A method for drafting a patent application comprising the steps of:

a. providing a system for receiving information inputs relating to an invention, wherein the system includes a computer having a processor, a memory, graphic user interface, and input mechanisms;

b. the system automatically transforming the inputs by automatically generating a visual diagram of the components of the invention in a multiplicity of hierarchical relational [[diagrams]] including at least one key component and at least one subcomponent associated with the at least one key component, wherein the ~~visual diagram is a~~ hierarchical relation diagram are diagrammatic [[representations]] of an invention, wherein the diagrammatic [[representations]] [[includes]] a hierarchical component categorization of the technical components of the invention based upon the user inputted information, wherein the diagrammatic representation comprises graphical component structure and textual component content wherein the textual component is positioned within the graphical component

structure for each component associated with each component such that for each component, the graphical component structure includes the full text of the textual component content, wherein the textual component and the diagram components are automatically directly linked by being visually integrated with one another within the diagrammatic representation and wherein the graphical component structure and textual component content being integrally visually generated and linked ~~in a single interactive diagram in a single user interface pane,~~ and automatically generating a document for filing as a patent application, including specification and claims, based upon the user inputted information and additional text-based detailed information that is organized consistent with the diagram; wherein the hierarchical component categorization includes at least one key component and at least one subcomponent related thereto; and

c. the at least one user viewing the hierarchical ~~[[diagrams]]~~ and text-based information in a tangible medium, wherein the diagrammatic representation of the components and subcomponents together provides an indication of what may be claimed in a patent application.

12. (currently amended) The method according to claim 11, further including the step of: at least one user entering diagram verbage\_by drafting the text-based detailed description or verbage\_of the specification section of the application for each component of the diagram wherein the text-based description and the diagram verbage\_are automatically directly linked by being visually integrated with one another where the text associated with each component is included only within the diagram section for that component.

13. (original) The method according to claim 11, further including the step of:

at least one user inputting additional components selected from the group consisting of key components, subcomponents, and sub-subcomponents.

14. (original) The method according to claim 11, further including the steps of:

modifying any previously inputted components within the diagram; and

the system automatically updating the diagram and relational information to those modified components.

15. (original) The method according to claim 11, further including the step of automatically generating a patent application based upon the inputted information and the hierarchical diagram, including specification and claims.

16. (currently amended) A system for mapping technology using at least one computing device, comprising:

a. at least one input device connected to the at least one computing device for receiving information inputs from at least one user;

b. at least one processing means for automatically generating a diagrammatic representation of a technology, wherein the diagrammatic representation includes a hierarchical component categorization of the technical components of the technology including at least one key component and at least one subcomponent associated with the at least one key component based upon the information inputted by the at least one user, wherein the diagrammatic representation comprises a visually integrated and linked graphical component structure and textual component content associated with each component, and wherein the graphical claim structure comprises multiple geometric outlines, each outline operable to fully display the textual content of a component or subcomponent, and at least

one line directly connecting the outlines to each other according the hierarchy, such that for each component, the graphical component structure for each component includes the full text of the textual component content for that component only, wherein the hierarchical component categorization includes at least one key component and at least one subcomponent related thereto ~~and the graphical component structure and textual component content being integrally visually generated and linked in a single interactive diagram in a single user interface pane; and~~

c. at least one output device connected to the at least one computing device for outputting the automatically generated diagrammatic representation of a technology showing the visually integrated and linked diagram and text-based components in the corresponding hierarchical relationship.

17. (currently amended) A method for mapping technology comprising the steps of:

a. providing a system for receiving information inputs relating to an invention, wherein the system includes a computer having a processor, a memory, graphic user interface, and input mechanisms and providing information inputs to the system relating to components of a technology;

b. transforming the information inputs by automatically generating ~~a visual diagram of the components of the technology in a~~ multiplicity of hierarchical relational ~~[[diagrams]]~~ including at least one key component and at least one subcomponent associated with the at least one key component, wherein the ~~visual diagram~~ multiplicity of hierarchical diagrams is ~~a~~ are diagrammatic ~~[[representations]]~~ of a technology, wherein the diagrammatic ~~[[representations]]~~ ~~[[includes]]~~ a hierarchical component categorization of the technical

components of the technology based upon the user inputted information, wherein the hierarchical diagrammatic [[representations ]] comprises graphical component structure and textual component content associated with each component such that for each component, the graphical component structure for each component includes the full text of the textual component content directly related only to that specific component, and outputting a viewable diagram of that categorization, ~~and that is integrally visually generated and linked in a single interactive diagram in a single user interface pane~~ wherein each of the components and its corresponding text-based information and its corresponding diagram components are automatically directly linked by being visually integrated with one another within the graphical component structure; wherein the hierarchical component categorization includes at least one key component and at least one subcomponent related thereto, and

c. the at least one user viewing the ~~diagram~~ multiplicity of hierarchical diagrams and text-based information in a tangible medium.

18. (previously cancelled)

19. (previously cancelled)